

Borg Backup

(a fork of Attic-Backup)

"I found the Holy Grail of backups."

(Stavros K. about Attic-Backup, 8/2013)

35c3 presentation by Thomas Waldmann

(presented by Manuel Riel)

Borg Backup - Features

- cli backup tool, separate GUIs
- good arch / platform / fs support
- deduplication (content-defined chunking / hash-id)
- compression (lz4, zstd, zlib, lzma)
- auth. encryption (AES256 + hmac/blake2)
- read from locally mounted fs
- store to local fs or to remote borg
- FUSE-mount backup archives

Borg Backup - remote backup

Own server with ssh and free space:

- install borg, configure, done!

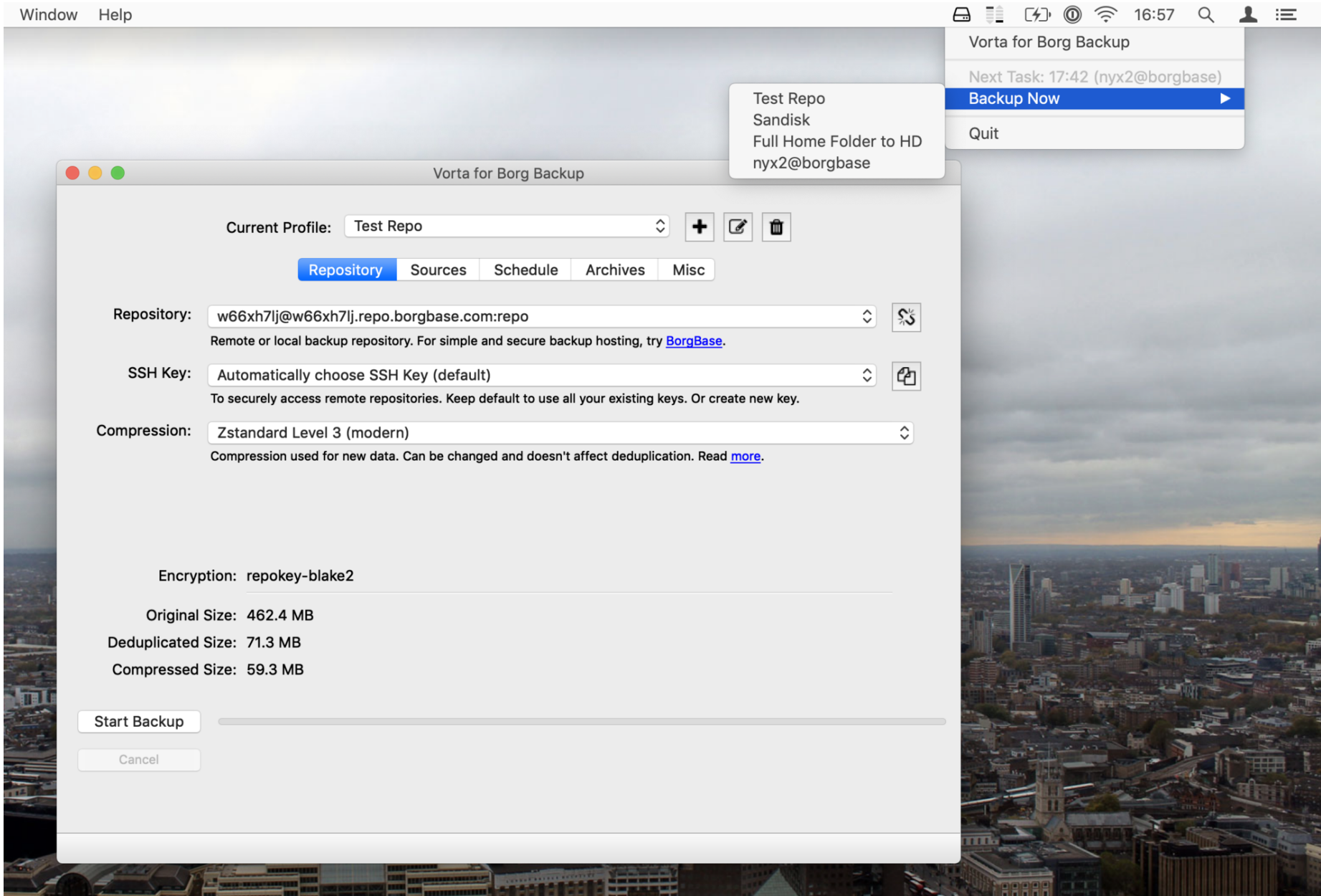
No own remote server? No problem:

- rsync.net (ssh, cli)
- hetzner's storage box
- borgbase.com (ssh, web, easy)
- mutual backups "nerd-to-nerd"
- local repo + rclone to cloud

Borg Backup - GUIs, Tools

- **Vorta** - a GUI for borg
 - Python 3.6+, Qt, Linux or macOS, GPL v3
 - assimilate less nerdy friends with this!
 - (show screenshots)
- **borgmatic** - define borg jobs by config file
- For more tools, see:
 - github: [borgbackup/community](https://github.com/borgbackup/community)
 - and please add your borg stuff there!

System Tray and Main Window



Select Source Folders and Exclusions

Vorta for Borg Backup

Current Profile:

Test Repo

⌵

+

✎

🗑

Repository

Sources

Schedule

Archives

Misc

Source Folders and Files to Back Up:

/Users/manu/Workspace/vorta/tests
/Users/manu/Documents/Asherah/Accounting
/Users/manu/Documents/financial/Bob

Add Folder
Add File
Remove

Exclude Patterns ([more](#)):

*/.DS_Store

Exclude If Present (exclude folders with these files):

.nobackup

Start Backup

Cancel

List of Point-In-Time Archives

Vorta for Borg Backup

Current Profile: Test Repo

RepositorySourcesScheduleArchivesMisc

Archives for w66xh7lj@w66xh7lj.repo.borgbase.com:repo

Date	Size	Duration	Mount Point	Name
2019-03-05 13:12	194.0 KB	0:00:01		nyx2-test-repo-2019-03-05T13:12:04
2019-02-16 12:04	47.8 KB	0:00:01		nyx2-test-repo-2019-02-16T12:04:06
2019-02-16 12:03	47.9 KB	0:00:01		nyx2-test-repo-2019-02-16T12:03:47
2019-02-16 12:01	47.9 KB	0:00:01		nyx2-test-repo-2019-02-16T12:01:20
2019-02-16 11:59	47.9 KB	0:00:01		nyx2-test-repo-2019-02-16T11:59:52
2018-12-14 14:08				nyx2.local-remote-test-repo-2018-12-14T14:08:00
2018-12-14 12:51				nyx2.local-remote-test-repo-2018-12-14T12:51:06

ExtractMountCheckDeletePruneRefresh

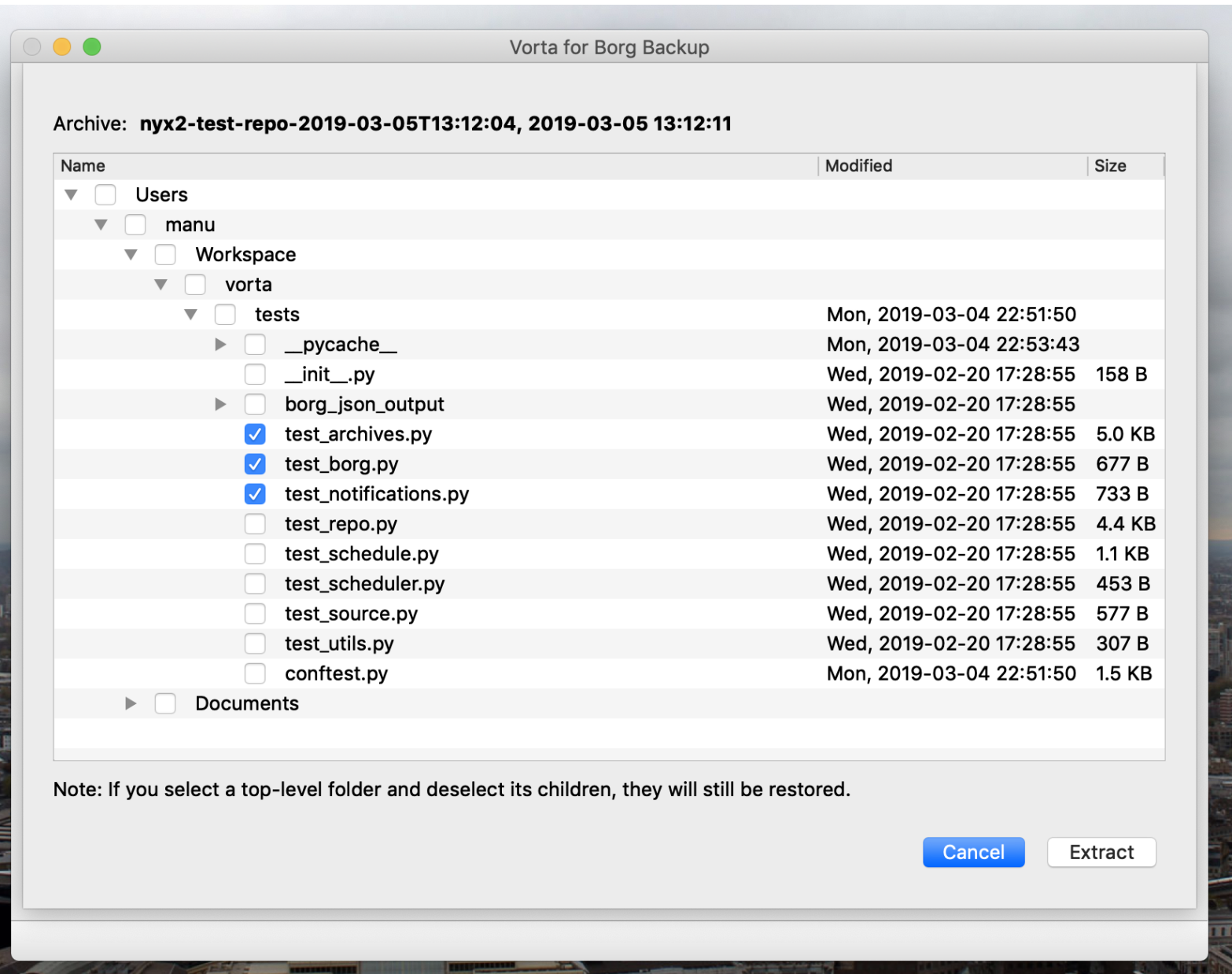
To mount archives, first install "FUSE for macOS" from [here](#).

Prune Options and Archive Naming

Start Backup

Cancel

Restore Individual Files and Folders



Backup Schedule

Vorta for Borg Backup

Current Profile: Test Repo

Repository Sources Schedule Archives Misc

Schedule

☒ Backup manually

☐ Backup every 1 hours at 24 minutes past the hour

☐ Backup daily at 17:54

☒ Validate repository data every 3 weeks

☐ Prune old Archives after each backup

Apply

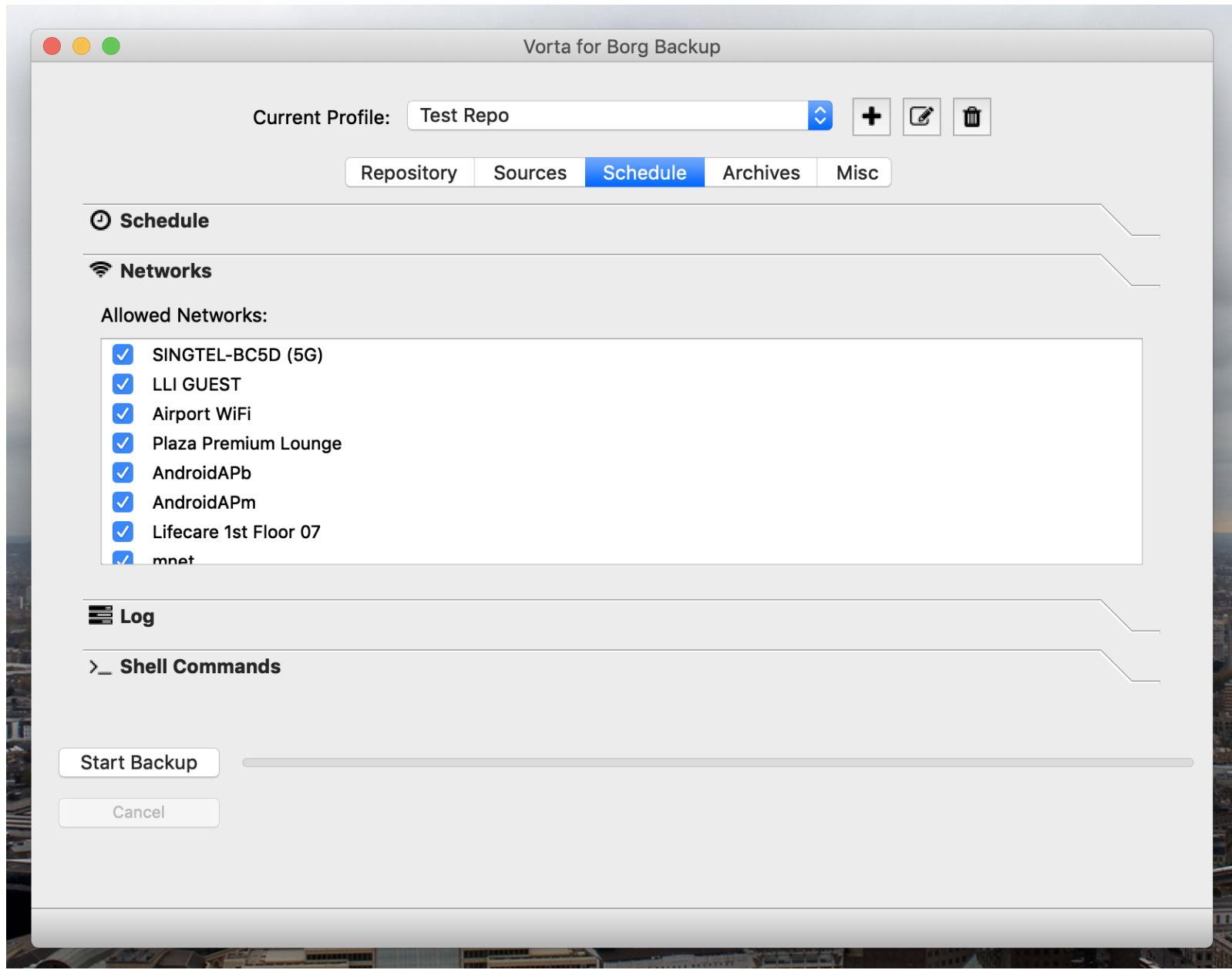
Next Backup: None scheduled

NetworksLogShell Commands

Start Backup

Cancel

Only Backup on Selected WiFis



Borg Backup - Project

- community project
- FOSS (BSD license)
- Python 3.4+ (master: 3.5+)
- for speed: a little Cython & C
- good docs (for users, devs)
- good test coverage, travis CI
- vagrant for platform testing

Borg Backup - Status

- 1.0.12 "oldstable" (last release?)
- 1.1.8 "stable" (ongoing releases)
- "hydrogen" milestone (1.2?):
 - code cleanups / refactorings / drop py34
 - new internal crypto api (AEAD style)
 - new repo compaction handling
- "helium", ... milestones:
 - bigger crypto changes
 - multithreading

We need more contributors!

- developers (Python, Cython, C)
- testers (alpha/beta/rc, reproduce issues)
- docs maintainers (reST / sphinx)
- community supporters (ML / github)
- security reviewers
- sponsors / donations (via BountySource)

Links

github.com/borgbackup

github.com/borgbase/vorta

[\[long vorta screencast\]](#)

[\[borg screencast\]](#)

Questions / Feedback / Meet?

Or use IRC, github issues or the mailing list.

Twitter: @borgbackup, @_m3nu